PERSONAL INFORMATION

Amit Kumar

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Sex Male | Date of birth 15/06/1996 | Nationality Indian

ABOUT ME

With 3 years of hands-on experience as a part-time DevOps student assistant, I am proficient in implementing automation tools and devising robust techniques with best practices. In my current role, I manage on-premise infrastructure and complete the life-cycle of 40+ projects with Docker, Gitlab, Jenkins, Kubernetes, and Rancher. As a M.Sc. Computer Science graduate with a strong emphasis on secure software engineering, cloud environment building, and DevOps practices, I am keen on leveraging my skills to contribute to the success of software projects.

SKILLS

Java, Spring Boot, Python, Groovy, Git, LFS, GitOps, Gitlab Administration, Gitlab CI/CD, Maven, Gradle, Docker, Jenkins, SonarQube, mlflow, Keycloak, Linux, Kubernetes, Helm, Scrum, Jira, MongoDB, Minio, ArgoCD Rancher, Harvester, Grafana, Node JS, Static Analysis

WORK EXPERIENCE

01/09/2020 - Current

Wissenschaftliche Hilfskraft im Bereich Energiewirthschaftliche Prozessintegration

Fraunhofer-Institut für Energiewirtschaft und Energiesystemtechnik, Kassel

Team support in DevOps with on-premise cloud infrastructure: containerization and deployment on Jenkins, Gitlab, Kubernetes, and Rancher.

1. Development and testing with Java
2. Research and implementation of tools and techniques to ease and automate software development
3. Creation and maintenance of Gitlab pipelines, Gitlab server administration, user management, and migration of 40+ projects
4. Automation and scripting with Java, Python, Groovy, and Bash
5. Monitoring and improving code coverage on multiple projects with SonarQube
6. Creation and maintenance of ML model tracking infrastructure with mlflow

Business or sector Energieinformatik

EDUCATION AND TRAINING

01/10/2019 – 18/07/2023

Masters of Science in Computer Science

Paderborn University, Paderborn

Average Grade: 2.6

Thesis: Empirical Evaluation of Forward and Backward Static Taint Analysis

Specialization: Software Engineering and Security
Modules: Design and Analysis of Large-Scale Software Systems, Interactive Data Visualization, Data Science in Industrial Application, Model-Based Software Engineering, Self-Adaptive Systems, Web Security, Software Quality Assurance

01/10/2019 – 18/07/2023

Bachelor of Engineering in Computer Science and Engineering

Chandigarh University, Mohali, India

Average Grade: 2.3 German Grade Equivalent

PERSONAL SKILLS

Mother tongue	Hindi
English	C1 (IELTS Test 2019)
German	A1
	Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages
Communications Skills	Excellent communication skills gained through event organization, workshops, and training
Organisational / managerial skills	Good leadership skills gained as a leader in university projects and tasks with 5 - 10 members
Job-related skills	Independent work, performing best to my ability, self-correcting and self-mentoring
Other Skills	Blockchain, Distributed Systems and Computing

ADDITIONAL INFORMATION

Projects

• GenBenchDroid Extension: Automated Android Application Generation for Benchmarking
Extensions and enhancement to a Node Js tool that generates Android applications based on JSON templates.

• Self-Adaptive System for Unmanned-Areal Vehicles: Reconnaissance mission
The self-adaptive system for UAVs aims to manage reconnaissance missions without being destroyed by the possible threats while detecting the maximum possible targets in an unknown environment.

• Asynchronous Blockchain without Consensus (Masters Project)
The robust transaction system is based on a directed acyclic graph blockchain and provides distributed and decentralized transaction services to its user. The project is an extension to research available on Asynchronous Blockchain without Consensus.

• Interactive Data Visualization of the spread of COVID-19
This project aimed at multiple data processing, filtering, and interactive scientific data visualization techniques to realize the spread of COVID-19.

Seminars

• Same Origin Policy: Evaluation of Modern Browsers
• Towards Digital-Twin enabled DevOps for CPS

Memberships

• Campus Ambassador for XRPL Fall 2022: XRP Ledger Foundation and Ripple
Organization and management of learning, research, development and hackathons on the XRPL Blockchain.

• Ausländische Studierenden-Vertretung: Paderborn University
Support and mentoring international students in overcoming technical, intercultural, and many challenges in student life.

Certifications

• Google IT Support Professional Certificate
This certification is aimed at an entry-level IT support specialist introducing operating systems, networking, troubleshooting, technical support, customer service, IT security, and administration of IT infrastructure.

Workshops

• Clean Code Workshop: Ferber-Software GmbH
Learning from categorization, principles, benefits, and implementation of clean code with a live demo and discussions.

• Lego4Scrum Workshop: S&N Invent GmbH
Learning scrum development and roles with LEGO.